Bruhath Bengaluru Mahanagara Palike

QUALITY ASSURANCE/QUALITY CONTROL REPORT

Office of the Chief Engineer (Quality Assurance/Control) Annexure-05,
BBMP Head Office, Hudson circle Bengalore-001,
Ph.no:08022975541, E-mail ID:qualitycontrol.bbmp@gmail.com

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QUALITY ASSURANCE REPORT/QUALITY CONTROL REPORT

		SE/QA/PR/184/2022-23, DATE: 10/07/2023
Name of Work	:	Improvements and Restoration of Roads in Ward NO. 05 (Package 01) (Package Consists of 6 Works) Estimated cost 600.00 Lakhs
Job Code	:	005-23-000001
Bill No.	:	**2nd &Part, Rs. 1,78,65,000.00(including GST)**
Name of Agency	:	Sri. K.R. Santosh Kumar
Type of Test Performed	:	Bitumen Content and Gradation test as per Table 500.10& Table 500.17 MORTH V Revision.
Materials on which Tests Was Performed	:	1.Bituminous Macadam (Grade II) 2.Bituminous Concrete (Grade II)
Officers present during inspection	:	1.Sri. Mahantesh AE – Ward no 05 2.Sri.Kiran.B. EE -Quality Assurance
Project Management Consultants/Third Party	:	Civil Pro Consultants
Observations	:	➢ Bitumen Content and Gradation Test was conducted by Project Management Consultants at random locations in presence of EE – QA along with along with AE-ward no 05. ➢ The Bitumen content & Gradation Test were conducted for BM (Grade II) & BC (Grade-II).The readings and results are recorded by the PMC consultants. ➢ The Bitumen Content & Gradation Test results are tabulated and analysis of test results done by PMC is here by furnished. ➢ The location wise test results are reproduced in the tables shown below.
Test Locations	:	Location 1: Cars 24 Beside Road (Cobble styles factory beside, Dhanalaxmi Stores beside, Gangamma Concrete Block factory beside) Location 2: Green Garden, Pyramid Apartment Road (In front of Pranavam House #38, In front of Empty Site Next to House #19, Infront of Madilu House #230) Location 3: Kattigenahalli, Amulya Family Restaurant Road (In front of Ravindra Singh Baghal House #73, Smt Saraswathi Niwas #78, Beside Amulya Bar & Restaurant)

21/6/23
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

21/6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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21/06/23
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
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Table-01: Bitumen Content and gradation Test in Cars 24 Beside Road at random locations BM- (GRADE-II)

Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	337	331	335
2. final weight of sample after extraction (gms) w2	327.5	321.5	325.5
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	6	6	6
5. Increased weight of filter paper (gms) w5=(w4-w3)	2	2	2
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	11.5	11.5	11.5
7. Bitumen content in % (w6/w1)x100	3.41	3.47	3.43
8.Average		3.44	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.07
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative % Passing	
26.5	0	0	0.0	100.0	100
19	12	12	3.7	96.3	90-100
13.2	50	62	18.9	81.1	56-88
4.75	155	217	66.3	33.7	16-36
2.36	50	267	81.5	18.5	4-19
0.3	30	297	90.7	9.3	2-10
0.075	12	309	94.4	5.6	0-8

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.07
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
26.5	0	0	0.0	100.0	100
19	16	16	5.0	95.0	90-100
13.2	40	56	17.4	82.6	56-88
4.75	159	215	66.9	33.1	16-36
2.36	57	272	84.6	15.4	4-19
0.3	33	305	94.9	5.1	2-10
0.075	10	315	98.0	2.0	0-8

SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.07
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
26.5	0	0	0.0	100.0	100
19	18	18	5.5	94.5	90-100
13.2	42	60	18.4	81.6	56-88
4.75	163	223	68.5	31.5	16-36
2.36	50	273	83.9	16.1	4-19
0.3	32	305	93.7	6.3	2-10
0.075	10	315	96.8	3.2	0-8

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Table-02: Bitumen Content and gradation Test in Cars 24 Beside Road at random locations
BC- (GRADE-II)

Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	312	318	309
2. final weight of sample after extraction (gms) w2	297	302.5	294
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	6	6	6
5. Increased weight of filter paper (gms) w5=(w4-w3)	2	2	2
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	17	17.5	17
7. Bitumen content in % (w6/w1)x100	5.45	5.50	5.50
8.Average		5.48	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	6	6	2.0	98.0	90-100
9.5	60	66	22.2	77.8	70-88
4.75	65	131	44.1	55.9	53-71
2.36	35	166	55.9	44.1	42-58
1.18	25	191	64.3	35.7	34-48
0.6	12	203	68.4	31.6	26-38
0.3	35	238	80.1	19.9	18-28
0.15	10	248	83.5	16.5	12-20
0.075	20	268	90.2	9.8	4-10

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	10	10	3.3	96.7	90-100
9.5	60	70	23.1	76.9	70-88
4.75	54	124	41.0	59.0	53-71
2.36	39	163	53.9	46.1	42-58
1.18	30	193	63.8	36.2	34-48
0.6	15	208	68.8	31.2	26-38
0.3	36	244	80.7	19.3	18-28
0.15	8	252	83.3	16.7	12-20
0.075	30	282	93.2	6.8	4-10

SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	7	7	2.4	97.6	90-100
9.5	65	72	24.5	75.5	70-88
4.75	45	117	39.8	60.2	53-71
2.36	35	152	51.7	48.3	42-58
1.18	29	181	61.6	38.4	34-48
0.6	12	193	65.6	34.4	26-38
0.3	40	233	79.3	20.7	18-28
0.15	17	250	85.0	15.0	12-20
0.075	25	275	93.5	6.5	4-10

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Table-03: Bitumen Content and gradation Test in Green Garden, Pyramid Apartment Road at rando locations

BC- (GRADE-II)

Description	Trial 1	Trail335 2	Trail 3
1.Initial weight of sample (gms) w1	315	320	318
2. final weight of sample after extraction (gms) w2	300	304.5	302.5
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	6	6	6
5. Increased weight of filter paper (gms) w5=(w4-w3)	2	2	2
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	17	17.5	17.5
7. Bitumen content in % (w6/w1)x100	5.40	5.47	5.50
8.Average		5.46	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	10	10	3.3	96.7	90-100
9.5	62	72	24.0	76.0	70-88
4.75	60	132	44.0	56.0	53-71
2.36	36	168	56.0	44.0	42-58
1.18	28	196	65.3	34.7	34-48
0.6	14	210	70.0	30.0	26-38
0.3	30	240	80.0	20.0	18-28
0.15	6	246	82.0	18.0	12-20
0.075	33	279	93.0	7.0	4-10

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	15	15	4.9	95.1	90-100
9.5	45	60	19.7	80.3	70-88
4.75	55	115	37.8	62.2	53-71
2.36	40	155	50.9	49.1	42-58
1.18	31	186	61.1	38.9	34-48
0.6	20	206	67.7	32.3	26-38
0.3	40	246	80.8	19.2	18-28
0.15	9	255	83.7	16.3	12-20
0.075	25	280	92.0	8.0	4-10

SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.0	100.0	100
13.2	10	10	3.3	96.7	90-100
9.5	70	80	26.4	73.6	70-88
4.75	47	127	42.0	58.0	53-71
2.36	35	162	53.6	46.4	42-58
1.18	31	193	63.8	36.2	34-48
0.6	15	208	68.8	31.2	26-38
0.3	35	243	80.3	19.7	18-28
0.15	18	261	86.3	13.7	12-20
0.075	25	286	94.5	5.5	4-10

21/6/22

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Table-04: Bitumen Content and gradation Test in Kattigenahalli, Amulya Family Restaurant Road at random locations

BM- (GRADE-II)

Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	335	338	331
2. final weight of sample after extraction (gms) w2	325.5	328	321.5
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	6	6	6
5. Increased weight of filter paper (gms) w5=(w4-w3)	2	2	2
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	11.5	12	11.5
7. Bitumen content in % (w6/w1)x100	3.43	3.55	3.47
8.Average	3.49		

SIEVE SIZE mm	Trail 1 Weight Retained, gm	Cumulative Weight Retained	Cumulative n%Retained	Cumulative % Passing	Requirement as per MORTH table 500.07
26.5	0	0	0.0	100.0	100
19	10	10	3.1	96.9	90-100
13.2	57	67	20.6	79.4	56-88
4.75	165	232	71.3	28.7	16-36
2.36	54	286	87.9	12.1	4-19
0.3	25	311	95.5	4.5	2-10
0.075	10	321	98.5	1.5	0-8

SIEVE SIZE mm	Trail 2 Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	Requirement as per MORTH table 500.07
26.5	0	0	0.0	100.0	100
19	19	19	5.8	94.2	90-100
13.2	46	65	19.8	80.2	56-88
4.75	165	230	70.1	29.9	16-36
2.36	59	289	88.1	11.9	4-19
0.3	20	309	94.2	5.8	2-10
0.075	14	323	98.5	1.5	0-8

SIEVE SIZE mm	Trail 3 Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	Requirement as per MORTH table 500.07
26.5	0	0	0.0	100.0	100
19	15	15	4.7	95.3	90-100
13.2	45	60	18.7	81.3	56-88
4.75	155	215	66.9	33.1	16-36
2.36	49	264	82.1	17.9	4-19
0.3	33	297	92.4	7.6	2-10
0.075	10	307	95.5	4.5	0-8

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Table-05: Bitumen Content and gradation Test in Kattigenahalli, Amulya Family Restaurant Road random locations

BC- (GRADE-II)

Description	Trial 1	Trail335 2	Trail 3
1.Initial weight of sample (gms) w1	310	295	312
2. final weight of sample after extraction (gms) w2	295	280.5	296.5
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	6	6	6
5. Increased weight of filter paper (gms) w5=(w4-w3)	2	2	2
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	17	16.5	17.5
7. Bitumen content in % (w6/w1)x100	5.48	5.59	5.61
8.Average		5.56	

SIEVE SIZE mm	Trail 1 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.0	100.0	100
13.2	5	5	1.7	98.3	90-100
9.5	59	64	21.7	78.3	70-88
4.75	70	134	45.4	54.6	53-71
2.36	25	159	53.9	46.1	42-58
1.18	27	186	63.1	36.9	34-48
0.6	12	198	67.1	32.9	26-38
0.3	38	236	80.0	20.0	18-28
0.15	10	246	83.4	16.6	12-20
0.075	20	266	90.2	9.8	4-10

SIEVE SIZE mm	Trail 2 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.0	100.0	100
13.2	12	12	4.3	95.7	90-100
9.5	57	69	24.6	75.4	70-88
4.75	43	112	39.9	60.1	53-71
2.36	42	154	54.9	45.1	42-58
1.18	29	183	65.2	34.8	34-48
0.6	13	196	69.9	30.1	26-38
0.3	32	228	81.3	18.7	18-28
0.15	15	243	86.6	13.4	12-20
0.075	20	263	93.8	6.2	4-10

SIEVE SIZE mm	Trail 3 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.0	100.0	100
13.2	8	8	2.7	97.3	90-100
9.5	55	63	21.2	78.8	70-88
4.75	41	104	35.1	64.9	53-71
2.36	32	136	45.9	54.1	42-58
1.18	28	164	55.3	44.7	34-48
0.6	25	189	63.7	36.3	26-38
0.3	35	224	75.5	24.5	18-28
0.15	28	252	85.0	15.0	12-20
0.075	25	277	93.4	6.6	4-10

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Conclusion:

The file containing **2nd & Part** bill has been submitted for the above work to QA department on 30.05.2023 requesting for spot inspection. Engineers of QA/QC division have visited the work spot on 16.06.2023

PMC team was instructed to assess the Gradation & Bitumen content test for BM (Grade II) & BC (Grade-II) on Asphalted road . The Rebound hammer test and Bitumen Content and Gradation Tests were conducted by PMC in presence of engineer in charge of work.

From the test results furnished by PMC, it is concluded that the results of the samples collected are in accordance with the standards/ specifications mention in the IRC codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

Engineer in charge of work shall ensure that work executed as per this bill is not claimed in any other bill /work or else Engineer in charge of work shall be held responsible.

Engineer in charge of Work shall append road history details of all the roads taken up in this work.

As the work is carried out from Project Division - Yelahanka Engineer in charge of Work shall furnish necessary details of concurrence/approval obtained from the concerned if Road/Drain improvements works taken up in ward roads/arterial/sub arterial roads.

Further, QA/QC directs the Engineer in-charge of the work that all materials used for the work shall be inspected, tested and accepted as per the relevant specifications before incorporation in the work. The frequencies and methods of sampling and testing materials, including those required for definite purpose and not covered by MORT&H specifications shall be in accordance to the relevant IRC or BIS or AASHTO/ASTM/BS standards in order of priority.

All materials or work not conforming to the requirements of the specifications shall be considered unacceptable and rejected. The unacceptable materials or works that are rejected shall be immediately removed unless the defects are corrected and approved by the engineer in-charge of work.

The concerned Engineer in charge of the work shall follow the direction issued by Chief Commissioner Letter number dated 01.08.2022 and 14.09.2022 and take necessary action as appropriate in accordance with the law.

Note: -

This report by QA/QC is pertaining to the work carried out in **2nd & Part bill** only. Therefore, further QA/QC reports shall be obtained for the items of work carried out in future Running Account bill / Final bill.

Engineer in charge of work shall display details of work, work code, cost of project, start and completion date, and information of Engineer in charge of work with contact numbers at work spot.

Engineer in charge of work and Agency shall ensure that if any damages or defects occur pertaining to the executed work within the Defect Liability period (DLP), The same shall be rectified immediately on top priority without fail.

Engineer in charge of work shall ensure that any changes/ modification/ change in location as per the sanctioned estimate to be got approved by competent authority.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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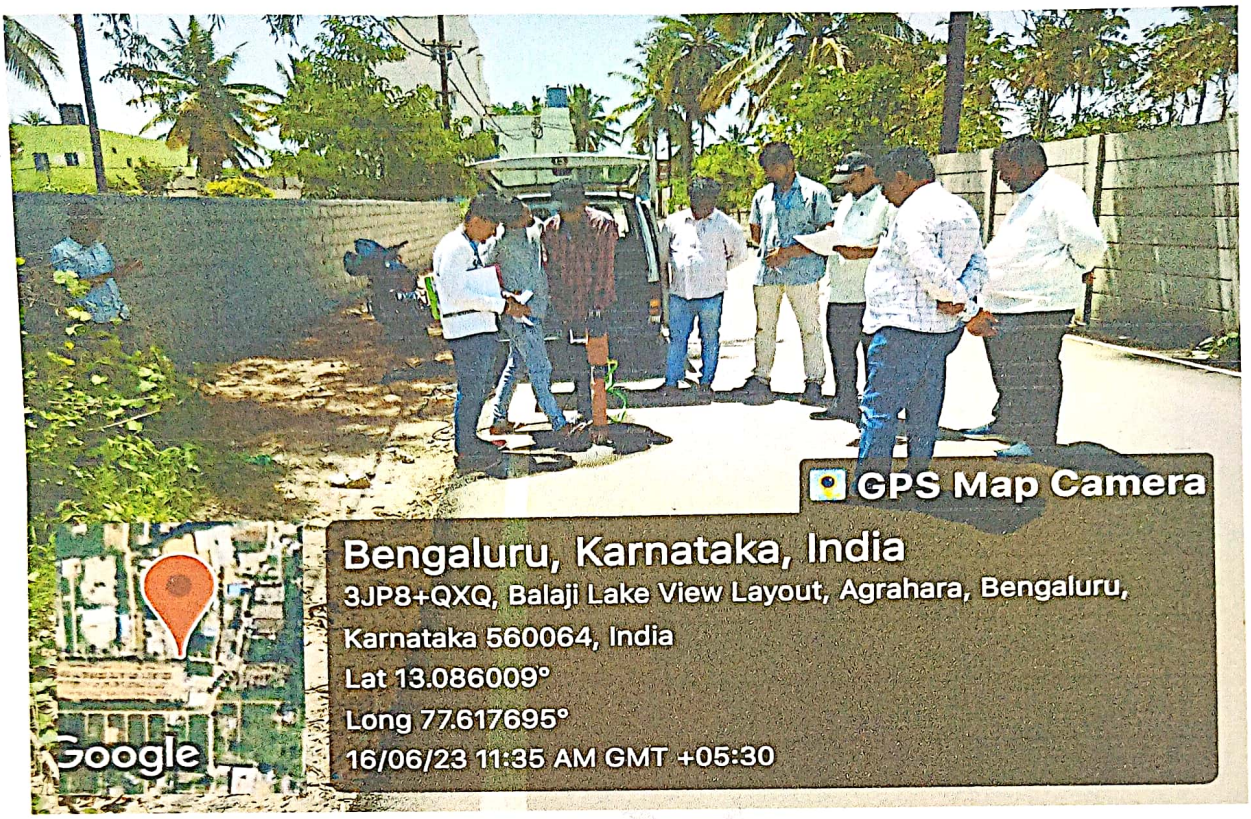
Location 1: Cars 24 Beside Road (Cobble styles factory beside, Dhanalaxmi Stores beside, Gangamma Concrete Block factory beside)



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಕರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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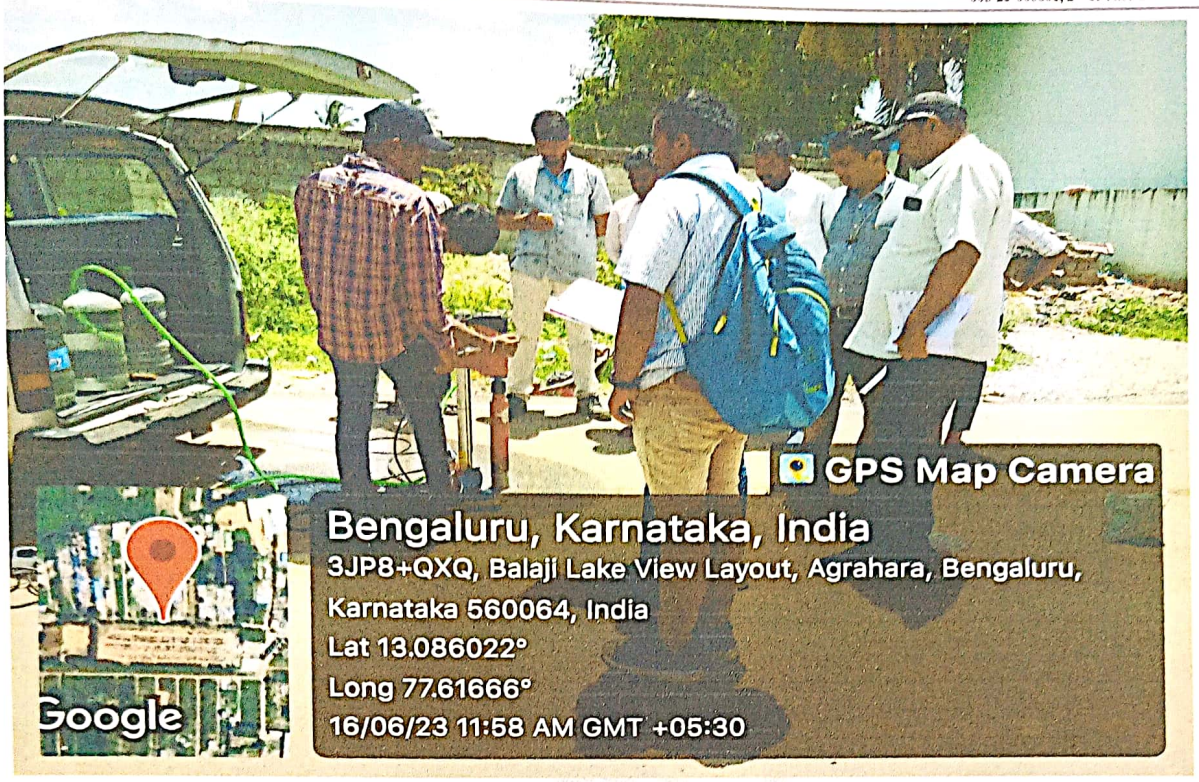

Location 2: **Green Garden, Pyramid Apartment Road (In front of Pranavam House #38, In front of Empty Site Next to House #19, Infront of Madilu House #230)**

21/6/23
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

21/6/23
ಅಧೀಕ್ಷಕ ಅಭಿಯರತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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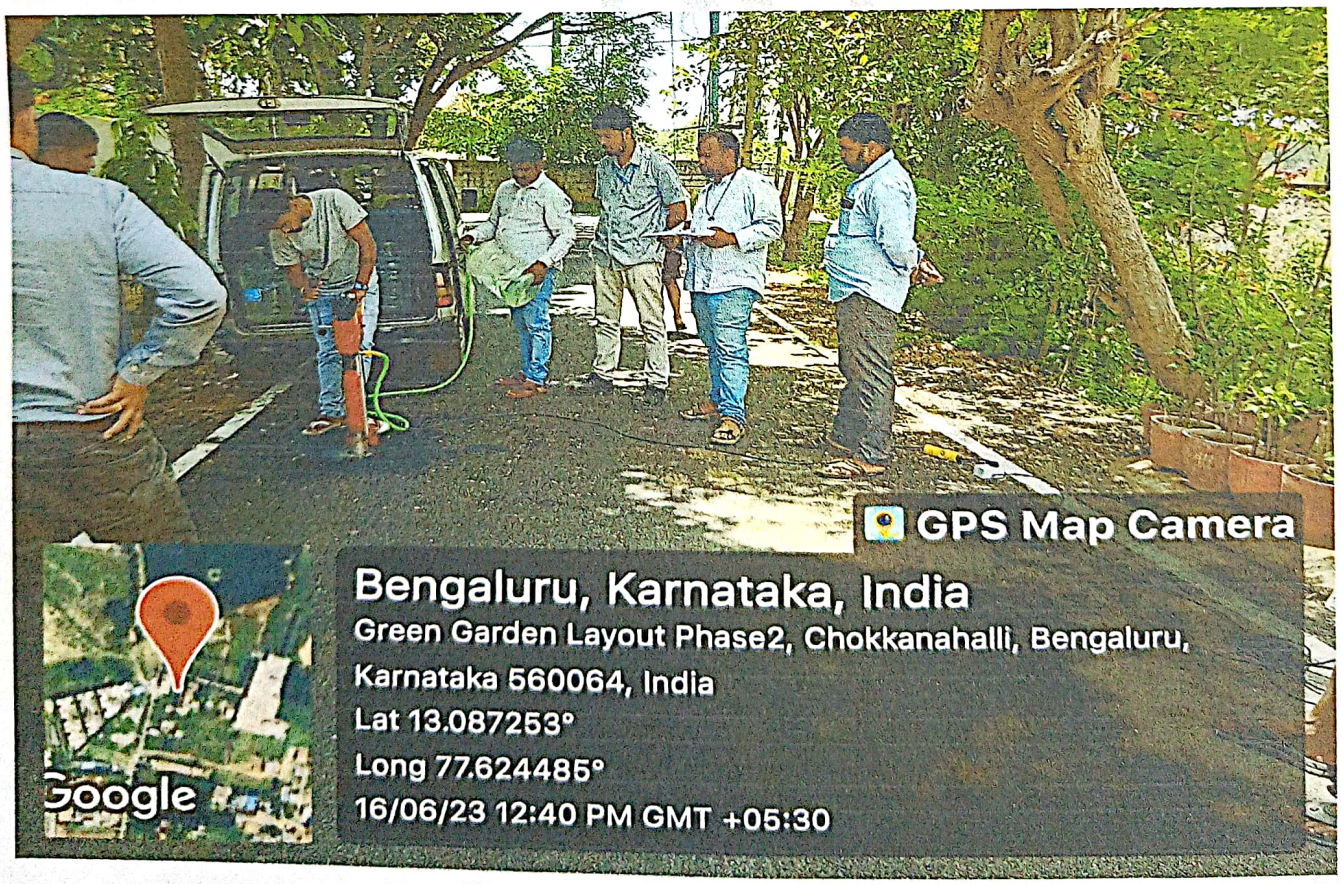

21/6/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
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ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Location 3: Kattigenahalli, Amulya Family Restaurant Road (In front of Ravindra Singh Baghal House #73, Smt Saraswathi Niwas #78, Beside Amulya Bar & Restaurant)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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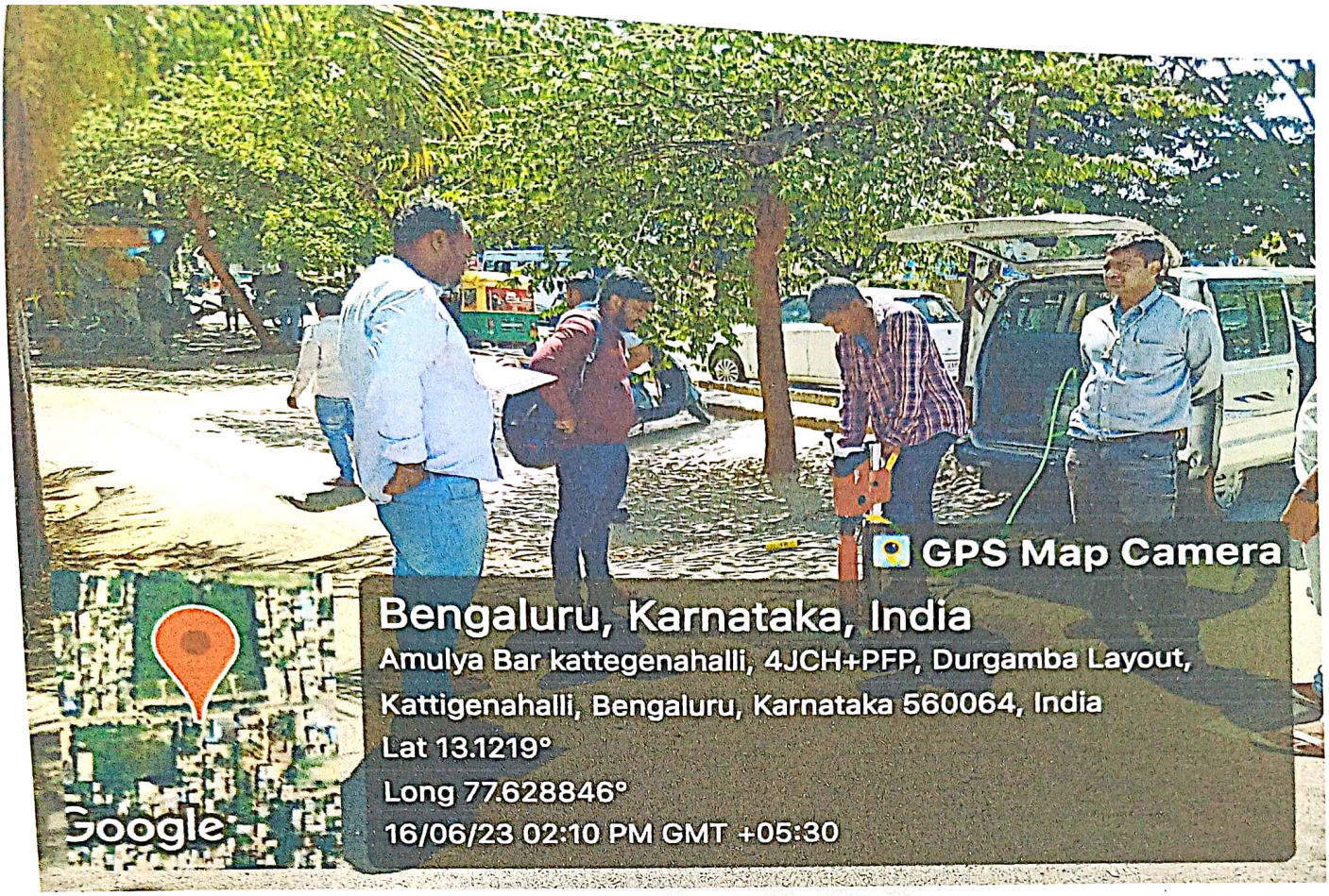

21/6/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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